



Water-Data Report 2008

01411456 LITTLE EASE RUN NEAR CLAYTON, NJ

MAURICE RIVER BASIN

LOCATION.--Lat 39°39'32", long 75°04'03" referenced to North American Datum of 1983, Clayton Borough, Gloucester County, NJ, Hydrologic Unit 02040206, on right bank 30 ft downstream from bridge on Academy Road (County Route 610), 0.9 mi west of Fries Mill, 1.3 mi east of Clayton, and 1.4 mi downstream from Beaverdam Branch.

DRAINAGE AREA.--9.77 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1966, 1976-84, 1987. February 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 100.94 ft above NGVD of 1929.

REMARKS.--Records fair, except for estimated discharges, which are poor. Occasional regulation from unknown sources. Several measurements of water temperature were made during the year. Satellite gage-height telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 9	1930	*28	*2.97

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.45	3.6	2.5	16	9.8	9.1	e7.7	5.8	5.4	0.66	0.42	0.53
2	0.38	3.2	2.5	14	19	8.5	e8.6	5.1	4.8	0.63	0.41	0.49
3	0.33	2.9	5.0	12	19	7.9	7.9	4.6	4.2	0.61	0.40	0.47
4	0.33	2.7	4.6	10	18	7.5	10	4.3	8.8	0.61	0.38	0.47
5	0.33	2.5	4.2	8.8	16	11	11	3.9	14	0.62	0.38	0.47
6	0.33	2.8	3.8	8.4	14	13	12	3.7	14	0.67	0.40	2.0
7	0.34	2.8	3.4	8.2	12	13	12	3.5	12	0.65	0.40	3.9
8	0.30	2.7	3.5	8.0	11	20	11	3.9	9.0	0.61	0.40	2.5
9	0.45	2.6	3.6	7.7	9.8	27	10	6.9	7.0	0.60	0.40	2.5
10	0.96	2.6	3.6	7.5	9.2	27	9.4	12	5.2	0.54	1.9	3.4
11	1.0	2.4	3.6	9.8	8.5	23	8.7	12	4.0	0.50	3.7	2.7
12	0.95	2.0	3.4	12	7.9	19	8.3	14	3.2	0.48	2.7	2.4
13	0.87	2.4	3.6	11	13	15	8.2	19	2.6	0.45	3.2	3.1
14	0.83	2.3	4.4	12	21	13	7.9	17	2.3	0.51	4.2	2.8
15	0.80	2.2	4.0	12	21	11	7.4	14	2.0	0.48	8.5	2.3
16	0.74	2.5	9.1	11	19	11	6.9	13	1.8	0.45	7.0	1.9
17	0.74	2.2	13	11	16	9.9	6.5	13	1.5	0.45	4.7	1.6
18	0.74	1.8	12	17	15	9.3	6.2	12	1.4	0.43	3.2	1.4
19	0.96	2.3	11	18	14	9.8	5.9	11	1.3	0.41	2.3	1.3
20	1.1	2.5	10	16	12	13	5.6	11	1.3	0.40	1.7	1.2
21	0.98	2.0	9.2	14	11	13	5.5	14	1.1	0.40	1.3	1.3
22	0.94	1.9	8.4	11	10	12	5.4	13	1.1	0.40	1.1	1.2
23	0.91	2.4	8.7	11	10	11	5.3	11	0.98	0.32	0.94	1.1
24	1.1	2.3	11	9.9	10	10	5.0	9.6	0.85	0.56	0.85	1.1
25	1.9	2.3	10	9.2	10	9.3	4.7	8.0	0.79	0.45	0.78	1.1
26	2.3	3.0	9.8	8.3	11	8.7	4.5	6.7	0.74	0.37	0.70	1.2
27	6.4	3.2	9.7	7.6	11	8.2	4.5	5.7	0.76	0.60	0.66	1.2
28	6.6	3.0	9.8	7.3	11	7.9	4.8	6.0	0.74	0.64	0.65	2.0
29	5.4	2.8	16	7.1	9.8	7.5	6.3	5.3	0.72	0.51	0.65	2.0
30	4.7	2.6	17	7.0	---	7.1	6.5	4.7	0.67	0.45	0.65	1.7
31	4.1	---	18	6.9	---	6.7	---	4.4	---	0.45	0.59	---
Total	48.26	76.5	238.4	329.7	379.0	379.4	223.7	278.1	114.25	15.91	55.56	51.33
Mean	1.56	2.55	7.69	10.6	13.1	12.2	7.46	8.97	3.81	0.51	1.79	1.71
Max	6.6	3.6	18	18	21	27	12	19	14	0.67	8.5	3.9
Min	0.30	1.8	2.5	6.9	7.9	6.7	4.5	3.5	0.67	0.32	0.38	0.47
Cfsm	0.16	0.26	0.79	1.09	1.34	1.25	0.76	0.92	0.39	0.05	0.18	0.18
In.	0.18	0.29	0.91	1.26	1.44	1.44	0.85	1.06	0.44	0.06	0.21	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.75	9.39	13.5	14.3	14.2	19.1	17.9	10.9	7.13	4.81	4.28	4.74
Max	19.7	30.8	42.2	26.5	26.4	38.7	39.8	29.3	25.5	19.0	15.2	21.5
(WY)	(1990)	(2007)	(2004)	(1991)	(2004)	(1994)	(2007)	(1989)	(2003)	(1989)	(1989)	(2003)
Min	0.75	1.21	1.60	3.17	2.40	6.16	5.14	4.44	1.38	0.51	0.56	0.56
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2006)	(1999)	(2008)	(2002)	(2001)

01411456 LITTLE EASE RUN NEAR CLAYTON, NJ—Continued**SUMMARY STATISTICS**

	Calendar Year 2007	Water Year 2008	Water Years 1988 - 2008
Annual total	3,743.17	2,190.11	
Annual mean	10.3	5.98	10.6
Highest annual mean			16.3
Lowest annual mean			2.75
Highest daily mean	239	Apr 16	239
Lowest daily mean	0.30	Oct 8	0.30
Annual seven-day minimum	0.33	Oct 2	0.33
Maximum peak flow		28	253
Maximum peak stage		2.97	5.45
Instantaneous low flow		0.20	0.20
Annual runoff (cfsm)	1.05	0.612	1.08
Annual runoff (inches)	14.25	8.34	14.70
10 percent exceeds	23	13	23
50 percent exceeds	3.9	4.2	7.1
90 percent exceeds	0.75	0.49	1.2

